Application No.: 10/562,482 Amendment under 37 C.F.R. §1.114 Art Unit: 3656 Attorney Docket No.: 053511

AMENDMENTS TO THE CLAIMS

The below listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended) A gear-shifting device for a manual transmission in which an

operational force applied at a change-lever for a shift operation is transmitted selectively to

actuate a synchro-sleeve for a gear shift;

wherein:

said gear-shifting device comprises a shift arm, which is rotatable in correspondence to

said shift operation of said change-lever, and a shift piece, which is in contact with said shift arm

and is capable of shifting in response to said rotation of said shift arm;

said shift arm having heteromorphous cams at a contacting part thereof, wherein said

cams are in contact with said shift piece and wherein said heteromorphous cams have at least two

different cam profiles which contact the same surface of said shift piece; and

while said shift arm is rotating in correspondence to said shift operation, a distance

between said contacting part and a rotational axis of said shift arm varies to change a leverage

effective between said change-lever and said contacting part.

2. (Original) The gear-shifting device for a manual transmission, as set forth in claim 1,

wherein:

while said change-lever is being operated from a neutral position to a geared position,

said leverage becomes smaller halfway through the operation.

- 2 -

Application No.: 10/562,482 Amendment under 37 C.F.R. §1.114
Art Unit: 3656 Attorney Docket No.: 053511

3. (Original) The gear-shifting device for a manual transmission, as set forth in claim 1 or 2, wherein:

said manual transmission comprises a plurality of speed-change gears and a synchromesh mechanism, which synchronizes said synchro-sleeve and one of said speed-change gears by pushing said synchro-sleeve onto said speed-change gear; and

said leverage is maximum at a time of synchronization by said synchromesh mechanism.

4. (Original) The gear-shifting device for a manual transmission, as set forth in claim 3, wherein:

said heteromorphous cams have a compound arc figure, which comprises a plurality of combined arcs having different curvature radii; and

said leverage changes to a smaller value when said contacting part transits from a surface defined by one arc to a surface defined by another arc among said arcs in response to the rotation of said shift arm after the synchronization.

5. (Previously Presented) The gear-shifting device as set forth in claim 1 or 2, wherein: said shift piece is provided with an approximately U shaped selector groove; and said contacting part of said shift arm is fitted in said selector groove.

Application No.: 10/562,482 Amendment under 37 C.F.R. §1.114 Art Unit: 3656 Attorney Docket No.: 053511

6. (Previously Presented) The gear-shifting device as set forth in claim 1 or 2, wherein: said shift arm is mounted on a shift selector shaft, which is rotated in correspondence to the shift operation of said change-lever.